CLAIMS

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I claim: 3

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1. An automatically adjustable rear suspension for trike comprising a supply of/pressurized gas pneumatically connected to a valve, at least one air spring pneumatically connected to said valve, said air spring being disposed between a trike swing arm and a trike frame, said valve being

mechanically attached to said swing arm by means of a valve pushrod.

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2. The automatically adjustable rear suspension for trike of claim 1 wherein said trike swing arm further comprises at least one L arm, each said L arm comprising an L arm horizontal member rigidly attached to an L arm vertical member, each said air spring being disposed between one said L arm horizontal member and said trike frame.

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3. The automatically adjustable rear suspension for trike of claim 2 wherein said trike swing arm 15

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4. The automatically adjustable rear suspension for trike of claim 3 further comprising a gas 18

further comprises an axle, said valve pushrod/mechanically connecting said axle and said valve.

- shock absorber attached at one extreme to said trike frame and at an opposite extreme to said 19
- 20 trike swing arm.

- 5. The automatically adjustable rear suspension for trike of claim 4 wherein said supply of 22
- pressurized gas comprises an air compressor. 23

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- 2 6. The automatically adjustable rear suspension for trike of claim 5 wherein said supply of pressurized gas comprises an accumulator pneumatically connected/to said compressor.
- 7. The automatically adjustable rear suspension for trike of claim 6 wherein said accumulator is pneumatically connected to said valve by means of a valve supply line, and wherein said valve is connected to said at least one air spring by means of an air spring supply line.
 - 8. An automatically adjustable rear suspension for trike comprising a supply of pressurized gas pneumatically connected to a valve, two air springs pneumatically connected to said valve, each said air spring being disposed between a trike swing arm and a trike frame, said trike swing arm being pivotably attached to a motorcycle frame at a pivot point, said trike frame being rigidly attached to said motorcycle frame, said valve being mechanically attached to said swing arm by means of a valve pushrod.
- 9. The automatically adjustable rear suspension for trike of claim 8 wherein said trike swing arm further comprises two L arms, each said L arm comprising an L arm horizontal member rigidly attached to an L arm vertical member, each said air spring being disposed between one said L arm horizontal member and said trike frame.
- 10. The automatically adjustable rear suspension for trike of claim 9 wherein said trike swing arm further comprises an axle, said valve pushrod mechanically connecting said axle and said valve.

- 1 11. The automatically adjustable rear suspension for trike of claim 10 further comprising a gas
- shock absorber attached at one extreme to said trike frame and at an opposite extreme to said
- 3 trike swing arm.

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- 5 12. The automatically adjustable rear suspension for trike of claim 11 wherein said supply of
- 6 pressurized gas comprises an air compressor.

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- 8 13. The automatically adjustable rear suspension for trike of claim 12 wherein said supply of
- 9 pressurized gas comprises an accumulator pneumatically connected to said compressor.

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- 14. The automatically adjustable rear suspension for trike of claim 13 wherein said accumulator is
- pneumatically connected to said valve by means of a valve supply line, and wherein said valve is
- connected to said at least one air spring by means of an air/spring supply line.

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- 15. A motorized tricycle comprising an automatically adjustable rear suspension for trike, said
- automatically adjustable rear suspension for trike comprising a supply of pressurized gas
- pneumatically connected to a valve, two air springs pneumatically connected to said valve, each
- said air spring being disposed between a trike swing arm and a trike frame, said trike swing arm
- being pivotably attached to a motorcycle frame at a pivot point, said trike frame being rigidly
- attached to said motorcycle frame, said valve being mechanically attached to said swing arm by
- 21 means of a valve pushrod.

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1 16. The motorized tricycle comprising automatically adjustable rear suspension for trike of claim

- 2 15 wherein said trike swing arm further comprises two L arms, each said L/arm comprising an L
- arm horizontal member rigidly attached to an L arm vertical member, each said air spring being
- 4 disposed between one said L arm horizontal member and said trike frame.

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- 6 17. The motorized tricycle comprising automatically adjustable rear suspension for trike of claim
- 7 16 wherein said trike swing arm further comprises an axle, said valve pushrod mechanically
- 8 connecting said axle and said valve.

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- 18. The motorized tricycle comprising automatically adjustable rear suspension for trike of claim
- 17 further comprising a gas shock absorber attached at one extreme to said trike frame and at an
- opposite extreme to said trike swing arm.

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- 19. The motorized tricycle comprising automatically adjustable rear suspension for trike of claim
- 18 wherein said supply of pressurized gas comprises an air compressor electrically connected to a
- motorized tricycle electrical system.

- 18 20. The motorized tricyele comprising automatically adjustable rear suspension for trike of claim
- 19 wherein said supply of pressurized gas comprises an accumulator pneumatically connected to
- 20 said compressor.